

IN THE CLAIMS:

1. A recliner mechanism for a rocker chair, comprising:

a base;

left and right rocker cam assemblies each including a rocker cam positioned at a cam bearing location relative to said base for forward and rearward rocking motion, said rocker cam assemblies being fixedly interconnected;

left and right side linkages; each including:

a seat mounting surface being connected to one of said rocker cam assemblies;

an ottoman linkage driven by a handle-operated torque tube to move an ottoman between an extended position and a retracted position, said ottoman linkage including a driving link connected to said torque tube; and

a rocker locking assembly driven by said torque tube to lock said rocker cam assemblies against rocking motion when said ottoman is in the extended position, said rocker locking assembly including a drive link interpivotally connected to said torque tube, said drive link being slidably connected to a drive member for driving a locking element and slidably connected to one of said rocker cam assemblies.

2. The mechanism of claim 1, wherein said drive member drives a plurality of locking elements interpivotally connected to each other, one of said locking elements being pivotally connected to said base, said locking elements being movable to a locking position in which said locking elements align to prevent forward rocking motion of said rocker cam assemblies.

3. The mechanism of claim 2, wherein said drive member drives a pivot link mounted on one of said rocker cam assemblies for pivotal movement between a non-locking position and a locking position in which said pivot link engages said base to prevent rearward rocking motion of said rocker cam assemblies.

4. The mechanism of claim 3, wherein said pivot element and said plurality of locking elements are interpivotally connected.

5. The mechanism of claim 1, wherein said ottoman linkage further includes a guide link pivotally connected to a first ottoman link and slidingly connected to a second ottoman link.

6. The mechanism of claim 1, wherein said seat mounting surface is pivotally connected to one of said rocker cam assemblies by a plurality of link members.

7. The mechanism of claim 6, wherein said plurality of link members are each pivotally mounted.

8. The mechanism of claim 1, wherein said ottoman linkage is pivotally connected to said seat mounting surface.

9. A recliner mechanism for a rocker chair, comprising:  
  
a base;

left and right rocker cam assemblies each including a rocker cam positioned at a cam bearing location relative to said base for forward and rearward rocking motion, said rocker cam assemblies being fixedly interconnected;

left and right side linkages; each including:

a seat mounting surface being connected to one of said rocker cam assemblies through link members;

an ottoman linkage driven by a handle-operated torque tube to move an ottoman between an extended position and a retracted position, said ottoman linkage including a driving link connected to said torque tube; and

a rocker locking assembly driven by said torque tube to lock said rocker cam assemblies against rocking motion when said ottoman is in the extended position, said rocker locking assembly including a drive link interpivotally connected to said torque tube, said drive link having a pair of cam surfaces for camming engagement with a drive member for driving a locking element.

10. The mechanism of claim 7, wherein said drive link further includes a second pair of cam surfaces for camming engagement with one of said rocker cam assemblies.

11. A recliner mechanism for a rocker chair, comprising:

a base;

left and right rocker cam assemblies each including a rocker cam positioned at a cam bearing location relative to said base for forward and rearward rocking motion, said rocker cam assemblies being fixedly interconnected;

left and right side linkages; each including:

a seat mounting surface being connected to one of said rocker cam assemblies through link members;

an ottoman linkage driven by a handle-operated torque tube to move an ottoman between an extended position and a retracted position, said ottoman linkage including a driving link connected to said torque tube; and

a rocker locking assembly driven by said torque tube to lock said rocker cam assemblies against rocking motion when said ottoman is in the extended position, said rocker locking assembly including a drive link interpivotally connected to said torque tube and being arranged to drive a drive member to lock said rocker cam assemblies against rocking motion, said drive link having a pair of cam surfaces for camming engagement with one of said rocker cam assemblies.

12. A recliner mechanism for a rocker chair, comprising:

a base;

left and right rocker cam assemblies each including a rocker cam positioned at a cam bearing location relative to said base for forward and rearward rocking motion, said rocker cam assemblies being fixedly interconnected;

left and right side linkages; each including:

a seat mounting surface being connected to one of said rocker cam assemblies through link members;

an ottoman linkage driven by a handle-operated torque tube to move an ottoman between an extended position and a retracted position, said ottoman linkage including a driving link connected to said torque tube and a guide link having a pair of cam surfaces for camming engagement with a first ottoman link, said guide link being pivotally interconnected to a second ottoman link.

13. A mechanism for a rocking reclining chair which includes an upholstered seat, an upholstered back, and an ottoman, comprising:

a base arranged to be supported on a floor;

left and right side rocker cam assemblies each including a rocker cam positioned at a cam bearing location on said base for forward and rearward rocking motion, said rocker cam assemblies being fixedly interconnected by transverse members;

left and right side linkages each including:

a set of pantographically interpivotated links for mounting the ottoman for extension to an extended position and retraction to a retracted position, said set of pantographically interpivotated links including a guide link having a slot formed therein, said slot being slidably engaged with a portion of a second ottoman link to guide the guide link to an ottoman supporting position when said set of pantographically interpivotated links is in the extended position;

a set of interpivotated support links for supporting the upholstered seat for movement between a more erect position achievable when the ottoman is in the retracted position, a recumbent position achievable when the ottoman is in the extended position, and a more recumbent position also achievable when the ottoman is in the extended position;

a set of interpivotated support links for supporting the upholstered back for movement between a more erect position achievable when the ottoman is in the retracted or extended position, and a more recumbent position achievable when the ottoman is in the extended position;

a transversely extending torque tube journaled in said left and right side linkages for reversible rotation about its own longitudinal axis, said torque tube being operatively connected to said pantographically interpivotated links, for extending the ottoman upon rotation of the torque tube in one angular direction and for retracting the ottoman upon rotation of the torque tube in an opposite angular direction; and

left and right locking linkages operatively connected to said torque tube, each of said linkages including a drive link interpivotally connected to said torque tube, said drive link cammingly engaging a drive member for driving a pivoting locking element for pivotal movement to selectively lock said chair against rearward rocking motion, said locking elements also driving a pair of locking links selectively movable to a locking position in which said pair of locking links align to prevent forward rocking motion of said chair.